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NOTICE OF ALLOWANCE AND FEE(S) DUE

37013

7590

03/28/2008

ROSSI, KIMMS & McDOWELL LLP. P.O. BOX 826 ASHBURN, VA 20146-0826 EXAMINER
PAUL, DISLER
ART UNIT PAPER NUMBER

2615 DATE MAILED: 03/28/2008

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/558.945	11/30/2005	Yusuke Konagai	YAMA:111	6756

TITLE OF INVENTION: ARRAY SPEAKER SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/30/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

appropriate. All further of	correspondence including d below or directed oth	ng the Patent, advance	orders and notification	of m	aintenance fees wi	ill be i	nailed to the current	ould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus have its own certificate of mailing or transmission.				
	7590 03/28 S & McDOWELI 20146-0826				Cert	ificate	of Mailing or Transr	
								(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO. FILING DATE			FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.		CONFIRMATION NO.
10/558,945	11/30/2005		Yusuke Konagai	i			YAMA:111	6756
ITTLE OF INVENTION:								
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nonprovisional	NO	\$1440	\$300		\$0		\$1740	06/30/2008
EXAMI	NER	ART UNIT	CLASS-SUBCLASS	3				
PAUL, D	DISLER	2615	381-335000					
"Fee Address" indi PTO/SB/47; Rev 03-0. Number is required. 3. ASSIGNEE NAME AN	ess an assignee is identi i in 37 CFR 3.11. Comp	" Indication form led. Use of a Custome A TO BE PRINTED O	c or agents OR, alter (2) the name of a seregistered attorney 2 registered patent listed, no name will N THE PATENT (print of	rnative single or ag attorn Il be p or type he par g an a	firm (having as a gent) and the name beys or agents. If norinted.	members of upon am	er a 2	ocument has been filed for
4a. The following fee(s) a Issue Fee Publication Fee (No		permitted)	4b. Payment of Fee(s): (A check is enclos Payment by credi	(Pleassed.	se first reapply an	y prev	iously paid issue fee s	·
5. Change in Entity Stat	*		Dis Assiliantians	. 1		I DAM	NEW ALTER CO. 27 OF	TD 1 27(-)(2)
==	SMALL ENTITY statu Publication Fee (if requeecords of the United Sta	uired) will not be accer	oted from anyone other th				TTY status. See 37 CF ttorney or agent; or the	e assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration No	э		
This collection of informa an application. Confidenti submitting the completed his form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 2231	ation is required by 37 Ciality is governed by 35 application form to the ons for reducing this burginia 22313-1450. DC 3 1450.	CFR 1.311. The information U.S.C. 122 and 37 CF USPTO. Time will winden, should be sent to NOT SEND FEES O	ation is required to obtain FR 1.14. This collection is ary depending upon the is the Chief Information O R COMPLETED FORM	n or re is estin individ Officer IS TO	etain a benefit by th mated to take 12 m dual case. Any cor c, U.S. Patent and T THIS ADDRESS.	e publ ninutes nment Traden SENI	ic which is to file (and to complete, including s on the amount of tin lark Office, U.S. Depa O TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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10/558,945 11/30/2005		Yusuke Konagai	YAMA:111	6756		
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ROSSI, KIMMS	S & McDOWELL LL	PAUL, DISLER				
P.O. BOX 826	-0.4.2.00-2		ART UNIT	PAPER NUMBER		
ASHBURN, VA 20146-0826			2615			
			DATE MAILED: 03/28/2008			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 307 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 307 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/558,945	KONAGAI, YUSUKE
Notice of Allowability	Examiner	Art Unit
	DISLER PAUL	2615
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the (OR REMAINS) CLOSED in this a or other appropriate communication IGHTS. This application is subject	correspondence address application. If not included on will be mailed in due course. THIS
 This communication is responsive to 3/17/08. 	and MPEP 1300.	
2. The allowed claim(s) is/are 1,4 and 5.		
3. Acknowledgment is made of a claim for foreign priority una All b)	e been received. been received in Application No. cuments have been received in thi of this communication to file a repl IENT of this application. itted. Note the attached EXAMINE as reason(s) why the oath or decla be submitted. con's Patent Drawing Review (PTC) s Amendment / Comment or in the ast be submitted. so Amendment / Comment or in the ast be submitted. so Amendment / Comment or in the ast be submitted. so Amendment / Comment or in the ast be submitted.	s national stage application from the ly complying with the requirements R'S AMENDMENT or NOTICE OF ration is deficient. O-948) attached Office action of vings in the front (not the back) of 1(d). must be submitted. Note the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 7/21,12/13/06;3/17,2/4/08 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	5. ☐ Notice of Informal 6. ☐ Interview Summar Paper No./Mail D 7. ☐ Examiner's Amend 8. ☑ Examiner's Stater 9. ☐ Other	ry (PTO-413), eate



Application No.

Art Unit: 2615

DETAILED ACTION

Allowable Subject Matter

1. Claims 1, 4-5 are allowed.

RE claim 1, while, Fujinami et al. disclose of the array speaker system in which a plurality of speakers units arranged in an array are supplied with signals having prescribed time differences, said array speaker system comprising: a delay memory for delaying an input signal; a control means for calculating delay times to be applied to the signals respectively supplied to the speaker units and means for supplying the delay imparted signals to speakers.

However, None of the prior art of record disclosed of the specific wherein: an interpolation processing means for performing interpolation processing for outputting delay-imparted signals based on the input signals from the delay taps of the delay memory , wherein the interpolation processing means includes two multipliers for multiplying outputs of two of the delay taps from the delay memory by coefficients supplied from the control means and an adder for adding outputs of the two multipliers with respect to each speaker unit, and wherein the control means divides the calculated delay time by the sampling period, and selects the two delay taps from the delay memory on the basis of a position corresponding to a division result so that outputs thereof are supplied to the two multipliers, to set the coefficients for performing linear interpolation based on the division result with respect to the multipliers

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Art Unit: 2615

Similarly, Re claims 5 has been analyzed and allowed for incorporating the similar

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limitation as in claim 1.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to DISLER PAUL whose telephone number is (571)270-1187. The examiner can normally be

reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chin

Vivian can be reached on 571-272-7848. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative

or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-

1000.

/D. P./

Examiner, Art Unit 2615

/Vivian Chin/

Supervisory Patent Examiner, Art Unit 2615